

AMENDMENTS TO THE CLAIMS:

Kindly amend claims 1 - 6, as shown below.

This listing of claims will replace all prior versions and listings of claims in the Application:

Claim 1 (currently amended): A projector comprising:

a projection optical system for projecting an image onto a projection surface;

optical zoom ~~means~~ mechanism for actuating said projection optical system to enlarge and reduce the image projected onto said projection surface;

distortion correcting ~~means~~ circuit for correcting a distorted quadrilateral image, without repositioning said projector, which is projected onto said projection surface when an optical axis of said projection optical system is oblique to said projection surface in vertical and horizontal directions, into a square corrected image;

zoom setting ~~detecting means~~ detector for detecting a zoom setting of said optical zoom means; and

corrective data ~~generating means~~ generator for generating corrective data to be set in said distortion correcting means based on the zoom setting detected by said zoom setting detecting means.

Claim 2 (currently amended): The projector according to claim 1, wherein said zoom setting ~~detecting means~~ detector comprises:

a detecting gear rotatable in ganged relation to said projection optical system which is actuated by said optical zoom ~~means~~ mechanism; and

a detecting element for detecting an angular displacement of said detecting gear.

Claim 3 (currently amended): The projector according to claim 2, wherein said optical zoom ~~means~~ mechanism comprises:

a ring gear mounted on an outer circumferential surface of a projection lens of said projection optical system, said detecting gear being in mesh with said ring gear.

Claim 4 (currently amended): The projector according to claim 1, wherein said distortion correcting ~~means~~ circuit corrects said projected image such that one of vertexes located on the opposite ends of one of the two diagonal lines of the square corrected image is positioned on a side of the outer edge of a projected range of the projected image, and the other one of the vertexes is positioned on a side adjacent to said side.

Claim 5 (currently amended): The projector according to claim 1, wherein said distortion correcting ~~means~~ circuit corrects said projected image by correcting two sides of the projected image in the vertical direction based on a vertically inclined angle of said optical axis with respect to said projection surface, fixing one of the two corrected sides, and manually moving the remaining three sides of the projected image with respect to the fixed side within the projected range of said projected image.

Claim 6 (currently amended): A method of correcting image distortion, comprising the steps of:

providing a projector having a projection optical system for projecting an image onto a projection surface, and optical zoom ~~means~~ mechanism for actuating said

projection optical system to enlarge and reduce the image projected onto said projection surface;

detecting a zoom setting of said optical zoom ~~means~~ mechanism;

generating corrective data based on the zoom setting which is detected; and

correcting a distorted quadrilateral image, without repositioning said projector,

which is projected onto said projection surface when an optical axis of said projection optical system is oblique to said projection surface in vertical and horizontal directions, into a square corrected image based on said corrected data which is generated.

Claim 7 (original): The method according to claim 6, wherein said step of correcting a distorted quadrilateral image comprises the step of correcting said projected image such that one of vertexes located on the opposite ends of one of the two diagonal lines of the square corrected image is positioned on a side of the outer edge of a projected range of the projected image, and the other one of the vertexes is positioned on a side adjacent to said side.

Claim 8 (original): The method according to claim 6, wherein said step of correcting a distorted quadrilateral image comprises the step of correcting said projected image by correcting two sides of the projected image in the vertical direction based on a vertically inclined angle of said optical axis with respect to said projection surface, fixing one of the two corrected sides, and manually moving the remaining three sides of the projected image with respect to the fixed side within the projected range of said projected image.